

LOCAL WIRELESS AUDIO SIGNAL RF TRANSMITTER AND RECEIVER HAVING  
A SINGLE DOWNCONVERTER WITHOUT THE NEED FOR IF CARRIER

ABSTRACT

5 A local wireless system for transmitting a modulated RF  
carrier audio signal from a base unit to a receiver unit is  
provided. The base unit has a pair of audio input connections  
of which are coupled to an audio source amplification device  
for receiving left and right audio signals. The receiver unit  
has a pair of electroacoustic transducers (speakers) for  
10 reproducing demodulated left and right audio signals modulated  
upon the RF carrier audio signal. The base unit encloses a  
transmitting circuit having a first antenna and first, second  
and third circuits which modulate the left and right audio  
signals onto an RF carrier signal in the 900 MHz range. A  
15 receiver unit encloses a receiver circuit and is coupled to  
the pair of speakers. The receiver circuit performs a single  
downconversion of the modulated RF carrier signal from the  
900MHz range to a useable 10.7MHz left and right signal.